

Cmnt No.	Reviewer	I&T Plan Page or Location	Comment Source	Comments	SI&T Disposition	SI&T Status
1	P. Parker	General comment	Chris Lynnes 286-2260 07/09/96	Is the plan meant to include Version 2 I&T as well as Version 1? If so, should that info be in there now, or will it be added later?	The plan is not version specific. Test packages will be targeted at Version 2. Version specific details will appear in the execution cover sheets.	closed
2	P. Parker	Section 3	Chris Lynnes 286-2260 07/09/96	If the answers to above are YES and NOW, there is an EOC-GDAAC interface that does not seem to be either in the ICT or SDP confidence tests. Also, there does not seem to be an FDF-GDAAC interface confidence test (another Release B feature?).	EOC - GDAAC interface testing will be included in EOC4. FDF - GDACC interface testing will be included in ICT10.	closed
3	P. Parker D. Brown	Section 3, page 3-1	Chris Lynnes 286-2260 07/09/96	Is the DAAC-DAO ICT (ICT5) meant to refer to the ECS-GDAAC interface for ancillary ingest, or the potential ECS-DAS interface if DAO processing is done outside ECS?	It refers to the ECS-GDAAC interface for ancillary ingest.	closed
4	P. Parker D. Brown	Section 3, page 3-1	Chris Lynnes 286-2260 07/09/96	If the former, it should be renamed, especially since it does not conform to the title of corresponding ICD. If the latter, then shouldn't the Interface Confidence test for the GDAAC-ECS interface be included somewhere?	Accept - renamed to "ECS - GSFC DAAC (DAO) Interface Confidence Test."	closed
5	P. Parker D. Brown J. Fisher	Section 3	Aaron Engel CSC 794-1233 07/19/96	I finished reviewing the EGS I&T Program Plan. While it looks good as far as it goes, I think there is a significant omission in that it ignores the user interfaces. The tests all assume that operations are based on a preordained product list.	SI&T is not responsible for testing the user interfaces. The user interface will be extensively tested during HITC SI&T and IATO testing. All known problems will be documented then and the SI&T team will be aware of any problems going into the test phase.	closed
6	P. Parker D. Brown J. Fisher	Section 3	Aaron Engel CSC 794-1233 07/19/96	There are no tests of user's requesting products that may impact the operation of the system. Exhibit 3-1 shows how the tests build up from a series of interface confidence tests to a daily operations test.	The some of the EGS tests (EGS 4 and 5) include performance and load test cases. The EGS tests serve as certification that the EGS is ready to support Operations Readiness Testing. In addition, several EOC-Compatibility Tests (ECTs) and a full system AM-1 end-to-end test are planned, which will exercise the functionality of the system.	closed
7	P. Parker D. Brown M. Bobrowsky	Section 3	Aaron Engel CSC 794-1233 07/19/96	Operations must include users from the Web and the X-Window interfaces requesting existing products, subsetting, etc. Otherwise, there is no confidence that the full system will work when users are allowed access.	This is correct. SDP3 will include users at a variety of locations in order to provide confidence that the system will work with real users. This will be described in the SDP3 test package.	closed
8	P. Parker D. Brown M. Bobrowsky	Section 3, Section 5, 5.3.1.1	David Han 286-6922 7/23/96	The mechanism and processes for EGS version acceptance are not defined in this document.	Same as comment #9.	
9	P. Parker D. Brown M. Bobrowsky	Section 3, Section 5, 5.3.1.1	David Han 286-6922 7/23/96	Per agreement between J. Smith and the DAAC Systems/Science Operations office, EGS version acceptance is contingent upon receipt of a concurring recommendation of acceptance by the DAACs via the DAAC	Our objective is to provide an assessment and recommendation of operational readiness to ESDIS Code 505. EGS version acceptance is an ESDIS SMO action.	closed

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				Systems/Science Operations Manager (G. Hunolt). But it's unclear, as it is, that where/how the DAACs are represented. Once the first comment is addressed, I think that this comment will be automatically addressed.		
10	M. Bobrowsky P. Parker	Section 3, page 3-1	David Han 286-6922 7/23/96	DAAC/ECS interface test is missing. The current DAAC systems at ASF and ORNL will have to interface with the ECS to allow the users to search and order their data holdings (detail interfaces are described in the ORNL and ORNL DAAC ICDS).	Same as comment #4.	closed
11	P. Parker	Page v 2nd par.	Jerry Garcia NASA LaRC (804)864-5888 7/29/96	State clearly what is the end-product of this testing program plan.	The end product is certification that the EGS systems are ready to support Mission Readiness Testing.	closed
12	D. Brown	Page v 2nd par.	Jerry Garcia NASA LaRC (804)864-5888 7/29/96	How does this test plan relate to DAAC certification?	Same as comment #9.	closed
13	J. Fisher	Page v 2nd par. 2nd sentence	Jerry Garcia NASA LaRC (804)864-5888 7/29/96	"The confidence test program focuses" should be "The confidence test program plan focuses. Insert plan after program."	Accept - the word plan was inserted.	closed
14	P. Parker	Page v executive summary, comment	Jerry Garcia NASA LaRC (804)864-5888 7/29/96	This section should state for whom this plan is intended, i.e., who are the users, customers, and other parties.	Rejected - not needed at the executive summary level and specified in the main body.	closed
15	P. Parker	Page vi Table of contents, comment	Jerry Garcia NASA LaRC (804)864-5888 7/29/96	Need to add a risk section.	Rejected - risk management is Stuart Frye's (ESDIS Risk Manager) area.	closed
16	P. Parker	Page vi Table of contents, comment	Jerry Garcia NASA LaRC (804)864-5888 7/29/96	Need to add a section on coping with changes in the I&T plan.	Rejected - that's what the IPT flexibility provides	closed
17	P. Parker	1-1 exhibit 1-1	Jerry Garcia NASA LaRC (804)864-5888 7/29/96	On this diagram indicate what level of requirements are being tested and by whom.	Accept - level of requirements indicated on diagram.	closed
18	J. Fisher	1-2 3rd bullet	Jerry Garcia NASA LaRC	Add to 3rd bullet a reference to test environment	Accept - test environment added to third bullet.	closed

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19	P. Parker	1-2 Content	Jerry Garcia NASA LaRC (804)864-5888 7/29/96	Need to have a section to identify the expected results of the tests.	Rejected - expected results are identified in the individual test packages.	closed
20	P. Parker J. Fisher	2-1 Objectives & Philosophy, comment	Jerry Garcia NASA LaRC (804)864-5888 7/29/96	Need to specify assumptions of test program plan.	Accept - the test execution cover sheet captures test assumptions as entrance criteria. Section 5.3.1.6 will be updated accordingly.	closed
21	J. Fisher	2-1 2nd paragraph- 1st bullet	Jerry Garcia NASA LaRC (804)864-5888 7/29/96	Add to the end of the sentence: "of unit, component and item level."	Rejected - this bullet refers to test organization levels not actual test levels (unit, component/module). For example, there existed before the streamlining effort separate component level and acceptance level testing by different test organizations, which performed overlapping activities. Now, the test organizations and activities are streamlined.	closed
22	P. Parker J. Fisher	2-1 section 2.2, 1st paragraph	Jerry Garcia NASA LaRC (804)864-5888 7/29/96	The term references, "reliably support" need to be defined.	Rejected - some engineering judgment will be required.	closed
23	P. Parker	2-1 section 2.2, comment	Jerry Garcia NASA LaRC (804)864-5888 7/29/96	Need to define expected results and what is to be accomplished.	Rejected - expected results are identified in the individual test packages.	closed
24	P. Parker	2-1 section 2.2, 4th bullet	Jerry Garcia NASA LaRC (804)864-5888 7/29/96	The phase "substantive modifications" is to vague. Define in more detail or establish a criteria for regression testing or retesting.	Rejected - there isn't any cookbook to decide when you should regression test.	closed
25	P. Parker J. Fisher	2-2 2.3	Jerry Garcia NASA LaRC (804)864-5888 7/29/96	Header "Confidence test program philosophy" is misleading. It should read I&T test program philosophy.	Accept - header modified as requested.	closed
26	P. Parker	2-2 2.3 1st paragraph, comment	Jerry Garcia NASA LaRC (804)864-5888 7/29/96	The purpose of this test is to show that the system performs to its mission requirements with confidence and high reliability. This needs to be stated in this section, "what is a	Reject - the definition of the confidence test package is included in the text of Sections 2.3 and 2.5.	closed

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27	P. Parker	2-2 2.3 1st paragraph, comment	Jerry Garcia NASA LaRC (804)864-5888 7/29/96	Where is acceptance testing mentioned? When will acceptance test be conducted? And by whom?	It's not. The only acceptance testing is now done by the developer in pre-delivery.	closed
28	P. Parker	3-1 section Question	Jerry Garcia NASA LaRC (804)864-5888 7/29/96	Will a unit level test be included in the test package?	No - unit level testing is the developer's responsibility - pre delivery.	closed
29	J. Fisher	3-1 Para. 3.2	Jerry Garcia NASA LaRC (804)864-5888 7/29/96	Acronym for Science Data Processing Facility should be SDPF not SDPS.	Accept with additional change- the component name is "Science Data Processing" (SDP).	closed
30	J. Fisher	3-4	TBS		Accept - test list was deleted until generated.	closed
31	P. Parker	3-5, comment	Jerry Garcia NASA LaRC (804)864-5888 7/29/96	Is there a TRMM daily confidence test?	There's a TRMM interoperability confidence test (EGS4) that should be developed as a TRMM "day in the life" test.	closed
32	P. Parker	3-5 4th paragraph, question	Jerry Garcia NASA LaRC (804)864-5888 7/29/96	What is the criteria for certification?	Same as comment #9.	closed
33	J. Fisher	Para.3.3.1	Jerry Garcia NASA LaRC (804)864-5888 7/29/96	EGS5 - expand the acronym meaning for EDC to be EROS Data Center and change the expanded meaning in EGSE6 10 only the acronym.	Accept - acronyms corrected.	closed
34	J. Fisher	3-5 1st paragraph	Jerry Garcia NASA LaRC (804)864-5888 7/29/96	Define "SN" (Spacecraft Network) in acronyms and abbreviations	Reject - SN, space network, is defined as such and appears in the acronyms and abbreviations.	closed
35	D. Brown J. Fisher	3-7 Exhibit 3-1	Jerry Garcia NASA LaRC (804)864-5888 7/29/96	"TRMM support EGS4" block requires more support than ICT6 & ICT7 to properly illustrate confidence test buildup.	Accept - Exhibit to be updated.	closed
36	P. Parker D. Brown	4-1 2nd paragraph	Jerry Garcia NASA LaRC	Need to complete Appendix-A.	Accept - Appendix A will be supplied in baseline document.	closed

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	M. Bobrowsky	(804)864-5888 7/29/96	Jerry Garcia NASA LaRC (804)864-5888 7/29/96	Define acronym for HITS to be Hughes Information Technology Systems.	Accept - acronym defined appropriately.	closed
37	J. Fisher	4-1 Para 4.	Jerry Garcia NASA LaRC (804)864-5888 7/29/96	"This is the same test as I&T #3 from GDS" Which I&T test does this correspond too? A bit confusing.	It corresponds to the tests lead by MRTT. Our Joint test philosophy is spelled out in Section 4.	closed
38	D. Brown	4-3 Exhibit 4-1, 1st row, 1st column	Jerry Garcia NASA LaRC (804)864-5888 7/29/96	Define "ETE" and "MRTT" in acronyms and abbreviations section.	Accept - acronyms defined.	closed
39	J. Fisher	4-3 Exhibit 4-1, 1st row, last section	Jerry Garcia NASA LaRC (804)864-5888 7/29/96	TBD's	Accept - participants include LaRC and GSFC DAACs.	closed
40	D. Brown	4-3 Exhibit 4-1, 1st row	Jerry Garcia NASA LaRC (804)864-5888 7/29/96			closed
41	J. Fisher	4-3 Exhibit 4-1	Jerry Garcia NASA LaRC (804)864-5888 7/29/96	The definitions for acronyms MRTT, NMC, GPCD, GPI, DDF, and TSU do not exist in Appendix B - Acronyms and Abbreviations.	Accept - acronyms defined.	closed
42	D. Brown	4-3 Exhibit 4-1	Jerry Garcia NASA LaRC (804)864-5888 7/29/96	Should all "LaRC" be referred to as "LaRC DAAC"?	Accept - added DAAC to LaRC.	closed
43	D. Brown	5-5 Para 5.2.2	Jerry Garcia NASA LaRC (804)864-5888 7/29/96	The list of membership includes DAAC but should it specify which DAAC like Para. 5.2.4 on Page 5-7?	Accept - DAACs are specified.	closed
44	P. Parker J. Fisher	5-2 Exhibit 5-1	Jerry Garcia NASA LaRC (804)864-5888 7/29/96	State purpose of each IPT in this figure.	Reject - each IPT is described in Section 5.2, which indicates their purpose.	closed
45	P. Parker	5-9 Section 5.3.1, comment	Jerry Garcia NASA LaRC (804)864-5888 7/29/96	Will this package also include information/history about past unit and component acceptance testing.	No - this information is not included.	closed
46	P. Parker	5-9 Section	Jerry Garcia	Will every folder in a binder be electronically	Yes, although there may be some unanticipated	closed

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		5.3.1, question	NASA LaRC (804)864-5888 7/29/96	available?	exceptions.	
47	P. Parker	5-10 Section 5.3.1.1, comment	Jerry Garcia NASA LaRC (804)864-5888 7/29/96	Add a section for Test assumptions.	Reject - any specific key assumptions are in the test case descriptions.	closed
48	P. Parker	5-12 section 5.3.1.4	Jerry Garcia NASA LaRC (804)864-5888 7/29/96	Add to the last sentence, "and summary assessments."	Accept - summary assessments and "formal test reports" being used interchangeably. Make it all "summary assessments".	closed
49	P. Parker	5-13 Exhibit 5-4	Jerry Garcia NASA LaRC (804)864-5888 7/29/96	The Discrepancy reports are used to report system problems from the Execution and Reporting Phase but how are the problems corrected?	That's an issue for the development organizations.	closed
50	P. Parker	5-13 Exhibit 5-4	Jerry Garcia NASA LaRC (804)864-5888 7/29/96	Should Para 5.3.2.3 and Exhibit 5-4 show a process flow indicating correction of DR on incremental EGS deliveries?	No, that's a development organization problem.	closed
51	J. Fisher	A-1	Jerry Garcia NASA LaRC (804)864-5888 7/29/96	TBS We need to get a copy of this section	Same as comment #36.	closed
52	J. Fisher	5-3	Sullivan Paul (301)805-5440 8/02/96	The SEAS and NMOS contracts have now been consolidated under the Consolidated Network and Mission Operations Support (CNMS) contract.	Accept - will change SEAS and NMOS occurrences to CNMOS.	closed
53	J. Fisher	Section 2.3, first paragraph	Sullivan Paul (301)805-5440 8/02/96	EBnet does not have an F&PR. Recommend replacing: (EDOS) and EOSDIS Backbone Network F&PRs with (EDOS) F&PR and EOSDIS Backbone Network Level 2 requirements.	Accept - text changed accordingly.	closed
54	J. Fisher	Section 2.3, first paragraph last sentence	Sullivan Paul (301)805-5440 8/02/96	How will related key functions be identified? Recommend providing a brief explanation.	Accept - brief explanation given in document.	closed
55	D. Brown W. Bryant	4-3 Exhibit 4-1	Sullivan Paul (301)805-5440	Support by the EBnet project is not shown. Recommend adding EBnet to the support line for the following tests: ICT4, EGS6,	Accept - EBnet added. Note: ICT4 and EGS6 are changed to ICT7 and EGS4, respectively.	closed

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56	J. Fisher	5-3	8/02/96 Sullivan Paul (301)805-5440 8/02/96	Scenario S3, Scenario S4, and Scenario S7. Under the EBnet Development organization recommend the following: 1. Change EBnet Development organization with EBnet Project Organization. 2. Change Developers with Project.	Accept - text updated to reflect Ebnet Project.	closed
57	J. Fisher	General comment	Debra Carra (301)794-2419 8/6/96	The Table of Contents needs to be updated for the entire document.	Same as comment #36.	closed
58	P. Parker J. Fisher	Page 2-2, Section 2.3	Debra Carra (301)794-2419 8/6/96	Confidence Test Program Philosophy. a. What is "...the mission critical criteria used by the ECS project..." The EDOS TOG is currently looking at definitions for Mission Critical, Mission Success, and Operational Critical. Note: Operational Critical requirements have been identified and are being evaluated based on these definitions. b. This document uses M&O and EDOS uses O&M. This may be confusing to the reader.	a. Accept - Bob Gray (Intermetrics) supplied Debra Carra (EDOS) with a list of definitions used by ECS. b. Reject - the acronym M&O is used by EGS I&T to refer to Maintenance and Operations organizations. The acronym O&M (operations and management) refers to part of the EDOS system (software) and is not referenced in the EGS I&T Program Plan.	closed
59	Steve War	Page 3-5, Section 3.3.1	Debra Carra (301)794-2419 8/6/96	EGS ASTER Instrument Operations confidence Test. EDOS no longer has a requirement to provide the EDC DAAC with ASTER EDSSs. The ASTER EDSSs will go from EDOS to the GSFC DAAC. What about the EDOS to ASTER SDPS interface?	Accept - correct EG\$6 description and include EDOS ASTER SDPS interface in test planning.	closed
60	J. Fisher	Page 4-5, Section 4.4	Debra Carra (301)794-2419 8/6/96	Exhibit 4-4, row 5 column 2. Change TSS Reports to SCS Reports.	Accept - TSS changed to SCS.	closed
61	J. Fisher	Page 5-3, Section 5-2-1	Debra Carra (301)794-2419 8/6/96	Computer Sciences Corporation. SEAS should be changed to CNMOS.	Same as comment #52	closed
62	J. Fisher	Page 5-3, Section 5-2-1	Debra Carra (301)794-2419 8/6/96	EDOS Development organization (GSFC 510/TRW). Please rewrite the sentence that states: "EDOS Developers will provide programmer support as required for I & T testing and engineering tests with other EOSDIS elements" to indicate that EDOS developers will provide support through the EDOS contract.	Accept - will rewrite the sentence as such.	closed
63	P. Parker	Page 5-2,	Debra Carra	Assuming that the EDOS TOG is the IPT team, then add to comments.list updated as requested.	Accept - membership list updated as requested.	closed

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	J. Fisher	Exhibit 5-1, EDOS IPT and Page 5- 7, Section 5.2.5	(301)794-2419 8/6/96	Membership list: EDOS Project and support personnel EDOS QA support. Others personnel as determined by the team lead.	Reject - the test execution cover sheet (part of the individual test package) captures entrance and exit criteria. Same as comment #20.	closed
64	J. Fisher	Page 5-9, Section 5.3.1.1	Debra Carra (301)794-2419 8/6/96	Recommend addition of a section indicating success criteria.	Yes. The text accompanying this exhibit states that this Exhibit is an example of the format of the procedures. It is not an example of the <u>content</u> of the procedures.	closed
65	P. Parker D. Brown M. Bobrowsky	Page 5-11, Section 5.3.1.1 Exhibit 5-3	Debra Carra (301)794-2419 8/6/96	Procedures Format: Will the actual procedures contain more data then is specified in this Exhibit? For example, there is no duration specified for step 1, lock and processing of return link data. How is success determined if it is not clear if requirements are being met/exceeded?	EDOS develops Operations Agreements with certain external interfaces which describe methods of interfacing such as fault isolation procedures, Standing Orders for data delivery, etc. EDOS will be verifying these procedures during its Operations Readiness Testing phase. Is there any interest in adding this to the inputs at the I&T level?	closed
66	P. Parker D. Brown M. Bobrowsky	Page 5-13, Section 5.3.2.1, Inputs	Debra Carra (301)794-2419 8/6/96	EDOS develops Operations Agreements with certain external interfaces which describe methods of interfacing such as fault isolation procedures, Standing Orders for data delivery, etc. EDOS will be verifying these procedures during its Operations Readiness Testing phase. Is there any interest in adding this to the inputs at the I&T level?	Accept - Operations Agreements will be added to the inputs.	closed
67	J. Fisher	Section 5.3.2.1	Debra Carra (301)794-2419 8/6/96	What about ICDs; developer test plans/procedures (ref. section 3.2.3 EDOS Component Confidence Testing; "The ESDIS I&T organization (GSFC code 505) maintains a representative on the EDOS IPT to gain insight into the EDOS test program, to help select tests from the EDOS test program'; etc.	Accept - ICDs will be added to the inputs.	closed